

01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°34'51", long 74°29'57" referenced to North American Datum of 1983, Middlesex Borough, Middlesex County, NJ, Hydrologic Unit 02030105, at bridge on State Route 28, 0.3 mi upstream from Green Brook, 0.9 mi northeast of Middlesex, and 2.4 mi west of the intersection of State Route 28 and Washington Avenue in Dunellen.

DRAINAGE AREA.--23.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Discharge, in ft ³ /s
Nov 6, 2007	17.5
Feb 5, 2008	24.8
May 8, 2008	11.5
Aug 12, 2008	19.9

01403385 BOUND BROOK AT ROUTE 28, AT MIDDLESEX, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Urban Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 9.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Instantaneous discharge, ft ³ /s (00061)	Turbidity white light, det ang 90+/-30 correctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)
Nov 06...	1100	17	6.2	.163	.122	756	9.1	83	7.3	451	--	10.7	130
Feb 05...	1040	25	9.0	.154	.116	759	11.8	92	7.1	410	8.5	4.8	120
May 08...	1130	11	3.3	.112	.085	752	6.9	75	7.4	514	20.5	19.2	170
Aug 12...	1200	20	4.0	.137	.100	754	--	--	7.9	589	25.5	22.0	170

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO ₂ (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Nov 06...	39.8	8.51	2.71	24.6	103	49.9	E.11	14.2	31.0	E238	268	5	.58
Feb 05...	36.5	7.67	2.10	32.1	79	55.2	E.10	11.8	25.7	E225	228	2	.42
May 08...	46.7	12.7	2.11	34.7	96	79.2	E.08	13.4	36.7	E287	323	3	.39
Aug 12...	48.5	11.6	2.59	32.6	118	65.6	E.11	9.1	30.6	E274	297	2	.40

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Boron, water, fltrd, µg/L (01020)
Nov													
06...	.194	1.11	.13	1.7	1.8	.055	.051	.085	1.0	<.04	1.0	5.1	109
Feb													
05...	.132	1.41	.09	1.8	1.9	.017	.028	.074	.7	<.04	.7	4.6	88
May													
08...	.079	.92	.07	1.3	1.4	.026	.036	.073	.5	<.04	.5	3.6	108
Aug													
12...	.048	.44	E.03	.84	E.87	.042	.056	.073	.4	<.04	.3	4.5	129